



# *Notice of References Cited*

Application/Control No.

10/272,024

Applicant(s)/Patent Under  
Reexamination  
PEREGO ET AL

Examiner

Kevin Verbrugge

Art Unit

2189

Page 1 of 1

## U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-2004/0250024	12-2004	Vogl, Pete D.	711/131
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

## FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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	S					
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## NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
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	W	
	X	

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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



PTO-1449 (Modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. RA158C	SERIAL NUMBER 10/272,024
	APPLICANT Richard E Perego et al.	
	FILING DATE October 15, 2002	GROUP ART UNIT 2187

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
W	5,513,135	04/30/1996	Dell et al.			
W	6,065,092	05/16/00	Roy			
W	6,185,644	02/06/01	Farmwald et al.			
W	5,034,917	07/23/91	Bland et al.			
W	4,977,498	12/11/90	Rastegar et al.			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

W	"Intel 82804AA Memory Repeater Hub for SDRAM (MRH-S) Datasheet", Intel Corp., pp. 2-48, (Nov 1999)
W	"Intel 82805AA Memory Translator Hub (MTH) Datasheet", Intel Corp., pp. 1-48, (Nov 99)
W	A. Cataldo "TI fields DSP-Based Media Processor on a DIMM", EE Times (Jan., 2000)
W	P. Mac Williams, "PC Memory Directions For 1999 and Beyond", Intel Developer Forum, pp. 1-10, (Sept. 1998)
W	B Johnson, "Direct RDRAM Basic Architecture and Program Overview", Intel Developer Forum, pp. 1-14, (Sept. 1998)
W	P. Gillingham, "SLDRAM Architectural and Functional Overview", SLDRAM Consortium, SLDRAM Inc., pp. 1-14, (Aug. 1997)
W	"Draft Standard For a High-Speed Memory Interface (SyncLink)", Draft 0.99 IEEE P1596.7-199X, IEEE Inc. (1996), pp. 1-51
W	H. Wiggers, "SyncLink A Proposal for an Implementation of IEEE P1596.4", Hewlett Packard, Mar., 1995, pp.1-20
W	"KMM377S1620CT2 SDRAM Module Datasheet", Samsung Electronics Inc., pp. 1-2, (Nov. 98)
W	"SLD4M18DR400 4MEG x 18 SLD RAM Datasheet", SLDRAM Inc.. pp. 1-69, (July 98)
W	J. Poulton, "Signaling in High Performance Memory Systems", IEEE Solid State Circuits Conference, slides 1-59, (Feb. 1999)
W	"SLDRAM 400Mb/s/pin Command/Address Repeater", SLD10400 Rev .5, SLDRAM Consortium, pp. 1-12 (Jan. 7, 1998)
W	Minutes of meeting no. 75 JEDEC JC-42.3 Committee on RAM Memories, and referenced attachment "Y" of the presentation titled "SyncLink", May 24, 1995, New Orleans

EXAMINER	<i>Keith Verbruggen</i>	DATE CONSIDERED	<i>6/16/03</i>
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.			

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
X	A	US-6,108,731	08-2000	Suzuki et al.	710/301
X	B	US-5,701,313	12-1997	Purdham, David M.	714/764
X	C	US-5,068,650	11-1991	Fernandez et al.	345/547
X	D	US-4,947,257	08-1990	Fernandez et al.	348/585
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**FOREIGN PATENT DOCUMENTS**

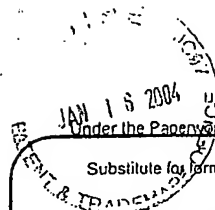
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

### Complete if Known

Application Number	10/272,024
Filing Date	Oct. 15, 2002
First Named Inventor	Richard E. Perego
Art Unit	2188
Examiner Name	Verbrugge, K.
Attorney Docket Number	RAMB-01049US0

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
W J W K W K W W W W		US-5,953,215	09-14-1999	Karabatsos	
		US-6,142,830	11-07-2000	Loeffler	
		US-6,185,644 B1	02-06-2001	Farmwald et al.	
		US-6,266,252 B1	07-24-2001	Karabatsos	
		US-6,317,352 B1	11-13-2001	Halbert et al.	
		US-6,414,904 B2	07-02-2002	So et al.	
		US-6,446,158 B1	09-03-2002	Karabatsos	
		US-6,493,250 B2	12-10-2002	Halbert et al.	
		US-6,530,006 B1	03-04-2003	Dodd et al.	
		US-6,643,752 B1	11-04-2003	Donnelly et al.	
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### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

Examiner  
Signature

*Kevin T. Verbrugge*

Date  
Considered

4/29/04

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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### Complete if Known

Application Number

10/272,024

Filing Date

Oct. 15, 2002

First Named Inventor

Richard E. Perego

Art Unit

2188

Examiner Name

Verbrugge, K.

Attorney Docket Number

RAMB-01049US0

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
KW		Intel Developer Forum, "DDR2 Memory In 2004 Servers - Recipes For Successful Designs", September 2003	
KW		QBM Alliance, Platform Conference, "Quad Band Memory (QBM tm): DDR 200/266/333 devices producing DDR400/533/667, Jan. 23-24, 2002	
KW		KARABATSOS, C., "Quad Band Memory (QBM) Technology", Kentron Technologies, Inc., April 2001	
KW		Quad Band Memory (QBM), "The 'QBM Enabled' VIA PT880/PM880 Chipset Solutions with the Fastest Memory",	
KW		WEBER, F., "The AMD Athlon Processor: Future Directions", AMD	

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Examiner Signature

*Richard E. Perego*

Date Considered

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Application Number	10/272,024
Filing Date	Oct. 15, 2002
First Named Inventor	Richard E. Perego
Art Unit	2188
Examiner Name	Verbrugge, K.
Attorney Docket Number	RAMB-01049US0

Sheet 1

of 2

## **U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.†	Document Number Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
W		US-6,587,912	07-01-2003	Leddige et al.	
		US-			
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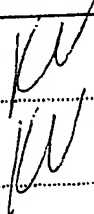
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				Application Number	10/272,024
				Filing Date	Oct. 15, 2002
				First Named Inventor	Richard E. Perego
				Art Unit	2188
				Examiner Name	Verbrugge, K.
				Attorney Docket Number	RAMB-01049US0
Sheet	2	of	2		

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		Intel Developer Forum, "Fully Buffered DIMM (FB-DIMM) Server Memory Architecture: Capacity, Performance, Reliability, and Longevity", February 18, 2004
		Intel Developer Forum, "Fully Buffered DIMM (FB-DIMM) Design Considerations", February 18, 2004
		<div style="text-align: right;"> <p><b>RECEIVED</b></p> <p><b>MAR 30 2004</b></p> <p><b>Technology Center 2100</b></p> </div>

Examiner Signature	<i>Kevin L. Kelly</i>	Date Considered	4/26/09
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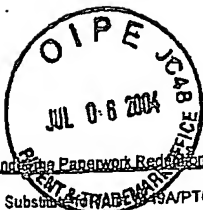
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Substantive Examination by USPTO

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		Number-Kind Code <sup>2</sup> (if known)			
KV		US-6690726	02-10-2004	Yavits et al.	
KV		US-5325493	06-28-1994	Herrell et al.	
KV		US-5867180	02-02-1999	Katayama et al.	
KV		US-6104417	08-15-2000	Nielsen et al.	
KV		US-6208273	03-27-2001	Dye et al.	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>2</sup> (if known)				

Examiner  
Signature

*Kevin Verbrugge*

Date  
Considered

9/27/04

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Sheet	2	of	2
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NON PATENT LITERATURE DOCUMENTS

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KV		US-5883839	03-16-1999	Tosaka et al.	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	<sup>6</sup>

Examiner Signature *Kevon Verbrugge* Date Considered 9/27/04

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<b>Notice of References Cited</b>	Application/Control No. 10/272,024	Applicant(s)/Patent Under Reexamination PEREGO ET AL.	
	Examiner Kevin Verbrugge	Art Unit 2188	Page 1 of 1

#### U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,185,654	02-2001	Van Doren, Stephen Richard	711/5
	B	US-6,530,033	03-2003	Raynham et al.	714/5
	C	US-5,228,132	07-1993	Neal et al.	711/5
	D	US-			
	E	US-			
	F	US-			
	G	US-			
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/272,024
Filing Date	October 15, 2002
First Named Inventor	Perego
Art Unit	2188
Examiner Name	Verbrugge, K.
Attorney Docket Number	RAMB-01049USD

Art Unit	2188
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Attorney Docket Number	RAMB-01049USD
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## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patent or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)			
W W W W W		EP 0 811 916 A2	12/10/1997	The Boeing	
		WO 99/30240	06-17-1999	Intel Corporation	
		WO 99/41666	08-19-1999	Intel Corporation	
		WO 99/41667	08-19-1999	Intel Corporation	
		EP 1069509 A2	01-17-2001	Texas Instruments Incorporated	

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		Application Number	10/272,024
		Filing Date	October 15, 2002
		First Named Inventor	Perego
		Art Unit	2188
		Examiner Name	Verbrugge, K.
Sheet 2	of 2	Attorney Docket Number	RAMB-01049US0

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W		PCT International Search Report (June 27, 2001) 4 pages	
W		Microsoft Press Computer Dictionary, 3rd Ed., 1997, pp. 48 and 68	
W		GUSTAVSON et al., "Macintosh HD:Desktop Folder:SLDRAM:peaterConcerns", Sunday, November 23, 1997, 4 pages	

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# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

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Title of  
Invention

INTEGRATED CIRCUIT BUFFER DEVICE

Application Number: 10/272024

\*10/272024\*

Confirmation Number: 1316

First Named Applicant: Richard Perego

Attorney Docket Number: RAMB-01049US0

Art Unit: 2188

Examiner: Kevin Verbrugge

Search string: ( 6330687 or 5371880 or 5475818 or 5400360 or 4631666 or 5655113 or 5511224 or 5574945 or 5917760 or 6016282 or 6449727 or 4644532 or 4667305 or 4747100 or 4864563 or 5228134 or 5355467 or 5408646 or 5537394 or 5544342 or 5553266 or 5557266 or 5604735 or 5630095 or 5659710 or 5787083 or 5802054 or 5802565 or 5805798 or 5848145 or 5884036 or 5893921 or 5900017 or 5901294 or 5911052 or 5913044 or 5923893 or 6247100 or 20040095838 or 20040260991 or 20040250181 or 20040250153 or 20040150024 or 20040246786 or 20040246785 or 20040246767 or 20040015650 or 20030177313 or 20020083287 ).pn.

## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

Init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
W	1	6330687	2001-12-11	Griffith			
W	2	5371880	1994-12-06	Bhattacharya			
W	3	5475818	1995-12-12	Molyneaux et al.			
W	4	5400360	1995-03-21	Richards et al.			
W	5	4631666	1986-12-23	Harris et al.			
W	6	5655113	1997-08-05	Leung et al.			
W	7	5511224	1996-04-23	Tran et al.			
W	8	5574945	1996-11-12	Elko et al.			
W	9	5917760	1999-06-29	Millar			

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Page 2 of 3

10	6016282	2000-01-18	Keeth
11	6449727	2002-09-10	Toda
12	4644532	1987-02-17	George et al.
13	4667305	1987-05-19	Dill et al.
14	4747100	1988-05-24	Roach et al.
15	4864563	1989-09-05	Pavey et al.
16	5228134	1993-07-13	MacWilliams et al.
17	5355467	1994-10-11	MacWilliams et al.
18	5408646	1995-04-18	Olnowich et al.
19	5537394	1996-07-16	Abe et al.
20	5544342	1996-08-06	Dean
21	5553266	1996-09-03	Metzger et al.
22	5557266	1996-09-17	Calvignac et al.
23	5604735	1997-02-18	Levinson et al.
24	5630095	1997-05-13	Snyder
25	5659710	1997-08-19	Sherman et al.
26	5787083	1998-07-28	Iwamoto et al.
27	5802054	1998-09-01	Bellenger
28	5802565	1998-09-01	McBride
29	5805798	1998-09-08	Kearns et al.
30	5848145	1998-12-08	Gallagher et al.
31	5884036	1999-03-16	Haley
32	5893921	1999-04-13	Bucher et al.
33	5900017	1999-05-04	Genduso et al.
34	5901294	1999-05-04	Tran et al.
35	5911052	1999-06-08	Singhal et al.
36	5913044	1999-06-15	Tran et al.
37	5923893	1999-07-13	Moyer et al.
38	6247100	2001-06-12	Drehmel et al.

## US Published Applications

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init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
1	20040095838	2004-05-20	Li				
2	20040260991	2004-12-23	Vogel et al.				

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Page 3 of 3

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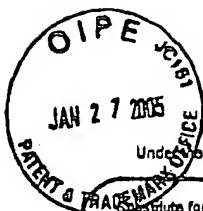
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		Application Number	10/272,024
		Filing Date	October 15, 2002
		First Named Inventor	Perego
		Art Unit	2188
		Examiner Name	Verbrugge, K.
Sheet 1 of 1	Attorney Docket Number	RAMB-01049US0	

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Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T‡
W		IEEE Standard for Scalable Coherent Interface (SCI), "Microprocessor and Microcomputer Standards Subcommittee of the IEEE Computer Society", IEEE Std 1596-1992	
W		SCI, "P1596: SCI, A Scalable Coherent Interface", November 28, 1988	
W		GUSTAVSON et al., DRAFT "The Scalable Coherent Interface Project (SuperBus)", SCI, August 22, 1988, Rev. 14	
W		SCHANKE, "Proposal for Clock Distribution in SCI", SCI, May 5, 1989	
W		JAMES, "Scalable I/O Architecture for Buses", COMPCON Spring 1989, SCI, November 28, 1988	
W		VOLZ et al., "Position Paper On Global Clock For the Futurebus +", SCI, 1989	
W		KRISTIANSEN et al., "Scalable Coherent Interface", to appear in Eurobus Conference Proceedings, May 1989	

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Sheet 1

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Application Number	10/272,024
Filing Date	October 15, 2003
First Named Inventor	Perego
Art Unit	2188
Examiner Name	Verbrugge, K.
Attorney Docket Number	RAMB-01049US0

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W	22	6345321	2002-02-05	Litaize et al			
W	23	6369605	2002-04-09	Bonella et al			
W	24	6449213	2002-09-10	Dodd et al			
W	25	6625687	2003-09-03	Halbert et al.			

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		Filing Date	October 15, 2002
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		Art Unit	2188
		Examiner Name	Verbrugge, K.
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KV		*U.S. Patent Application Serial No. 10/713,868, filed 11-14-2003 by Pete D. Vogt	
KV		*U.S. Patent Application Serial No. 10/714,025, filed 11-14-2003 by Pete D. Vogt	
KV		*U.S. Patent Application Serial No. 10/714,026, filed 11-14-2003 by Pete D. Vogt	
KV		*U.S. Patent Application Serial No. 10/883,474, filed 06-30-2004 by Pete D. Vogt	
KV		*U.S. Patent Application Serial No. 10/882,999, filed 06-30-2004 by Pete D. Vogt	
KV		*U.S. Patent Application Serial No. 10/859,438, filed 05-31-2004 by Pete D. Vogt	
KV		*U.S. Patent Application Serial No. 10/858,850, filed 05-31-2004 by Pete D. Vogt	
KV		*U.S. Patent Application Serial No. 10/859,060, filed 05-31-2004 by Pete D. Vogt	
KV		NG, R. (Sun Microsystems Inc.), "Fast computer memories", IEEE Spectrum, October 1992, pp. 36-39	
KV		SALTERS, R.H.W. (Philips Research Laboratories), "Fast DRAMS for sharper TV", IEEE Spectrum, October 1992, pp. 40-42	

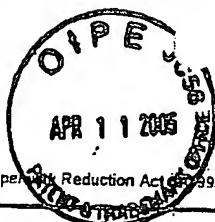
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		Application Number	10/272,024
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Filing Date	October 15, 2002
		First Named Inventor	Perego
		Art Unit	2188
		Examiner Name	Verbrugge, K.
		Attorney Docket Number	RAMB-01049USO
Sheet	2	of	2

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KW		JONES, F (United Memories, Inc.), "A new era of fast dynamic RAMs", IEEE Spectrum, October 1992, pp. 43-49	
KW		FARMWALD, M. et al. (Rambus Inc.), "A fast path to one memory", IEEE Spectrum, October 1992, pp. 50-51	
KW		GJESSING, S. (University of Oslo), GUSTAVSON, D.B (Stanford Linear Accelerator Center), JAMES, D. et al. (Apple Computer Inc.), WIGGER, H. (Hewlett-Packard Co.), "A RAM link for high speed", IEEE Spectrum, October 1992, pp. 52-53	
KW		The Institute of Electrical and Electronics Engineering, Inc., "IEEE Standard for High-Bandwidth Memory Interface Based on Scalable Coherent Interface (SCI) Signaling Technology (RamLink)", 1996, pp. 1-91	

Examiner Signature	<i>Kevin Verbrugge</i>	Date Considered	4/20/05
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1
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of 2

**Complete if Known**

Application Number	10/272,024
Filing Date	October 15, 2002
First Named Inventor	Perego
Art Unit	2188
Examiner Name	Verbrugge, K.
Attorney Docket Number	RAMB-01049US0

## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)			
W W W W W		EP 0 811 916 A2	12/10/1997	The Boeing	
		WO 99/30240	06-17-1999	Intel Corporation	
		WO 99/41666	08-19-1999	Intel Corporation	
		WO 99/41667	08-19-1999	Intel Corporation	
		EP 1069509 A2	01-17-2001	Texas Instruments Incorporated	

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4/1/05

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		Application Number	10/272,024
		Filing Date	October 15, 2002
		First Named Inventor	Perego
		Art Unit	2188
		Examiner Name	Verbrugge, K.
Sheet 2 of 2	Attorney Docket Number	RAMB-01049US0	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
W		PCT International Search Report (June 27, 2001) 4 pages	
W		Microsoft Press Computer Dictionary, 3rd Ed., 1997, pp. 48 and 68	
W		GUSTAVSON et al., "Macintosh HD:Desktop Folder:SLDRAMrepeaterConcerns", Sunday, November 23, 1997, 4 pages	

Examiner Signature	<i>Kevin Verbrugge</i>	Date Considered	4/1/05
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/272,024
		Filing Date	October 15, 2002
		First Named Inventor	Perego
		An Unit	2189
		Examiner Name	Verbrugga, K.
		Attorney Docket Number	RAMB-010490S0
Sheet 1 of 1			

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
KV		US-6425084 B2	07-23-2002	Soderquist	
KV		US-4821339	11-04-1988	Wagner et al.	
KV		US-4747070	06-24-1988	Trotter et al.	
KV		US-4858107	08-15-1989	Fedala	
KV		US-5602780	02-11-1997	Diem et al.	
KV		US-5642444	08-24-1997	Mostafaei	
KV		US-5838985	11-17-1998	Ohki	
KV		US-6708248	03-16-2004	Garrett, Jr., et al.	
KV		US-5882238	11-09-1999	Soderquist	
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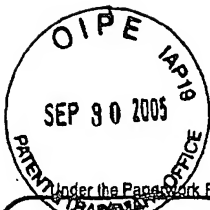
FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)			
KV		EP 0 282 070 B1	08-03-1994	Fujitsu Limited	

Examiner Signature	<i>Kevin Verbrugga</i>	Date Considered	8/15/05
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 1

**Complete if Known**

Application Number	10/272,024
Filing Date	October 15, 2002
First Named Inventor	Perego
Art Unit	2189
Examiner Name	Verbrugge, K.
Attorney Docket Number	RAMB-01049US0

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
W		US-5926839	07/20/1999	Katayama	
W		US-6272609 B1	08/07/2001	Jeddeloh	
W		US-6292877 B1	09/18/2001	Ryan	
W		US-6449703 B2	09/10/2002	Jeddeloh	
W		US-6480927 B2	11/12/2002	Bauman	
W		US-6604180 B2	08/05/2003	Jeddeloh	
W		US-6622224 B1	09/16/2003	Cloud	
W		US-2001/0039606 A1	11/08/2001	Jeddeloh	
W		US-2002/0184462 A1	12/05/2002	Jeddeloh	
W		US-6477592 B1	11/05/2002	Chen et al.	
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FOREIGN PATENT DOCUMENTS						
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Examiner Signature	<i>Kevin Verbrugge</i>	Date Considered	11/4/05
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